NOSB COMMITTEE RECOMMENDATION Form NOPLIST1. Committee Transmittal to NOSB

For NOSB Meeting: Spring 2008				Substance: <u>Dextrin</u>					
Committee: Crops X Livestock Handling Petition is for: Dextrin to be used as a binder in seed coatings with placement on the National List § 205.601(n) as seed preparations									
A. Evaluation Criteria (Applicability noted for each category; Documentation attached) 1. Impact on Humans and Environment 2. Essential & Availability Criteria 3. Compatibility & Consistency 4. Commercial Supply is Fragile or Potentially Unavailable as Organic (only for 606) B. Substance Fails Criteria Category: 2 & 3 Comments: Non-synthetic starches are currently being used successfully for									N/A
seed coatings. Using	nonessential synth	etic s	ubstances is not	compatible	with	organic farr	ming. 		
C. Proposed Annota	ation (if any):								
Basis for annotation: To meet criteria above: Other regulatory criteria: Citation: D. Recommended Committee Action & Vote (State Actual Motion): Dextrin to be used as a binder in the seed coatings with placement on the National List § 205.601(n) As Seed Preparation.									
Motion by: Gerald Da	avis Seconded: Ke	evin Er	ngelbert Yes: <u>0</u>	No:	<u>4</u>	_ Absent	: <u>2</u>	Abstail	n:
	Crops	X	Agricultural			Allowed ¹			
	Livestock	^	Non-Synthetic			Prohibited	<u>d</u> 2		
	Handling		Synthetic		x	Rejected ³			
	No restriction		Commercially Un- Available as Organic ¹ Deferred ⁴						
Substance voted to be added as "allowed" on National List to § 205with Annotation (if any) Substance to be added as "prohibited" on National List to § 205with Annotation (if any)									
Describe why a prohibited substance:									
3) Substance was rejected by vote for amending National List to § 205. 601(n)_Describe why material was rejected: Substance fails evaluation criteria 2 and 3 (see comments listed above in section B.) 4) Substance was recommended to be deferred because									
follow up If follow-up needed, who will									
E. Approved by Committee Chair to transmit to NOSB:									
Gerald Davis Committee Chair	<u>Gerald Davis</u> <u>3/27/2008</u>								

NOSB EVALUATION CRITERIA FOR SUBSTANCES ADDED TO THE NATIONAL LIST

Category 1. Adverse impacts on humans or the environment? Substance – <u>Dextrin</u>

Question	Yes	No	N/A ¹	Documentation (TAP; petition; regulatory agency; other)
1. Are there adverse effects on				
environment from manufacture,				
use, or disposal?			X	
[§205.600 b.2]				
2. Is there environmental				Non-toxic, biodegradable, no contamination events known
contamination during manufacture,		37		Petition p. 4
use, misuse, or disposal? [§6518		X		
m.3]				No. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
3. Is the substance harmful to the environment?		v		Not expected to persist in the environment. No studies done
		X		Petition p.4
[§6517c(1)(A)(i);6517(c)(2)(A)i] 4. Does the substance contain List				
1, 2, or 3 inerts?		X		
		Λ		
[§6517 c (1)(B)(ii); 205.601(m)2] 5. Is there potential for detrimental				Inert carbohydrate substance not expected to interact with
chemical interaction with other				other substances. No definitive studies done
materials used?		X		Petition p. 4
[§6518 m.1]		Δ.		reduon p. 4
6. Are there adverse biological and				None known
chemical interactions in agro-		X		Trone known
ecosystem? [§6518 m.5]		11		
7. Are there detrimental				See 6
physiological effects on soil				
organisms, crops, or livestock?		X		
[§6518 m.5]				
8. Is there a toxic or other adverse				Dextrin is an incompletely hydrolyzed starch susceptible to
action of the material or its		X		degradation
breakdown products?				Petition p. 4
[§6518 m.2]				-
9. Is there undesirable persistence				See 6
or concentration of the material or				
breakdown products in		X		
environment?[§6518 m.2]				
10. Is there any harmful effect on				FDA affirmed as GRAS (Generally Recognized As Safe) for
human health?				use in food at levels not to exceed current good manufacturing
[§6517 c (1)(A)(i) ; 6517 c(2)(A)i;		X		practices
§6518 m.4]			-	Petition p. 3
11. Is there an adverse effect on				
human health as defined by			v	
applicable Federal regulations?			X	
[205.600 b.3] 12. Is the substance GRAS when				
used according to FDA's good				
manufacturing practices? [§205.600			X	
b.5]			11	
13. Does the substance contain			1	
residues of heavy metals or other				
contaminants in excess of FDA			X	
tolerances? [§205.600 b.5]				

¹If the substance under review is for crops or livestock production, all of the questions from 205.600 (b) are N/A—not applicable.

Category 2. Is the Substance Essential for Organic Production? Substance - Dextrin

Question	Yes	No	N/A ¹	Documentation (TAP)		
1. Is the substance formulated or manufactured by a chemical process? [6502 (21)]	X			(TAP; petition; regulatory agency; other) Dextrin is formed by spraying powdered starch with a dilute acid solution, usually hydrochloric acid. Then pre-drying takes place followed by heating to 95 C to 195 C depending on the properties desired. Petition p. 3		
2. Is the substance formulated or manufactured by a process that chemically changes a substance extracted from naturally occurring plant, animal, or mineral, sources? [6502 (21)]	X			See 1		
3. Is the substance created by naturally occurring biological processes? [6502 (21)]		X				
4. Is there a natural source of the substance? [§205.600 b.1]			X			
5. Is there an organic substitute? [§205.600 b.1]			X			
6. Is the substance essential for handling of organically produced agricultural products? [§205.600 b.6]			X			
7. Is there a wholly natural substitute product? [§6517 c (1)(A)(ii)]	X			Nonsynthetic starches are currently being used in organically approved seed coating technologies. Lecithin has also been used in another organically approved seed coating.		
8. Is the substance used in handling, not synthetic, but not organically produced? [§6517 c (1)(B)(iii)]		X				
9. Is there any alternative substances? [§6518 m.6]	X			See # 7		
10. Is there another practice that would make the substance unnecessary? [§6518 m.6]	X			Using planters that do not require seed coating would make the substance unnecessary, for example, air planters.		

If the substance under review is for crops or livestock production, all of the questions from 205.600 (b) are N/A—not applicable.

Category 3. Is the substance compatible with organic production practices? Substance - <u>Dextrin</u>

Question	Yes	No	N/A ¹	Documentation (TAP)
1. Is the substance compatible with organic handling? [\$205.600 b.2]			X	(TAP; petition; regulatory agency; other)
2. Is the substance consistent with organic farming and handling? [§6517 c (1)(A)(iii); 6517 c (2)(A)(ii)]		X		The use of nonessential synthetic substances is not compatible with organic farming and handling, nor compatible with organic principles
3. Is the substance compatible with a system of sustainable agriculture? [§6518 m.7]	X			Non-toxic synthetics could be compatible with sustainable agriculture, and there are no known instances of harmful impacts. Petition p.
4. Is the nutritional quality of the food maintained with the substance? [§205.600 b.3]			X	
5. Is the primary use as a preservative? [§205.600 b.4]			X	
6. Is the primary use to recreate or improve flavors, colors, textures, or nutritive values lost in processing (except when required by law, e.g., vitamin D in milk)? [205.600 b.4]			X	
7. Is the substance used in production, and does it contain an active synthetic ingredient in the following categories: a. copper and sulfur compounds;		X		
b. toxins derived from bacteria;		X		
c. pheromones, soaps, horticultural oils, fish emulsions, treated seed, vitamins and minerals?		X	-	
d. livestock parasiticides and medicines?		X		
e. production aids including netting, tree wraps and seals, insect traps, sticky barriers, row covers, and equipment cleaners?		X		

If the substance under review is for crops or livestock production, all of the questions from 205.600 (b) are N/A—not applicable.

Category 4. Is the commercial supply of an agricultural substance as organic, fragile or potentially unavailable? [§6610, 6518, 6519, 205.2, 205.105 (d), 205.600 (c) 205.2, 205.105 (d), 205.600 (c)]

Substance -

Question	Yes	No	N/A	Comments on Information Provided (sufficient, plausible, reasonable, thorough, complete, unknown)
1. <u>Is the comparative description</u> <u>provided</u> as to why the non-organic form of the material /substance is necessary for use in organic handling?			X	
2. Does the current and historical industry information, research, or evidence provided explain how or why the material /substance cannot be obtained organically in the appropriate form to fulfill an essential function in a system of organic handling?			X	
3. Does the current and historical industry information, research, or evidence provided explain how or why the material /substance cannot be obtained organically in the appropriate quality to fulfill an essential function in a system of organic handling?			X	
4. Does the current and historical industry information, research, or evidence provided explain how or why the material /substance cannot be obtained organically in the appropriate quantity to fulfill an essential function in a system of organic handling?			X	
5. Does the industry information provided on material / substance non-availability as organic, include (but not limited to) the following: a. Regions of production (including factors such as climate and number of regions);			X	
b. Number of suppliers and amount produced;			X	
c. Current and historical supplies related to weather events such as hurricanes, floods, and droughts that may temporarily halt production or destroy crops or supplies;			X	
d. Trade-related issues such as evidence of hoarding, war, trade barriers, or civil unrest that may temporarily restrict supplies; or			X	
e. Are there other issues which may present a challenge to a consistent supply?			X	